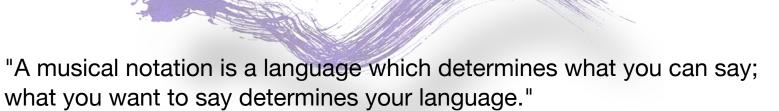
Notation as Art



Cornelius Cardew 1961



Inside the Wind - For Chorus

Richard Hoadley 2007-17 v0.7

Note

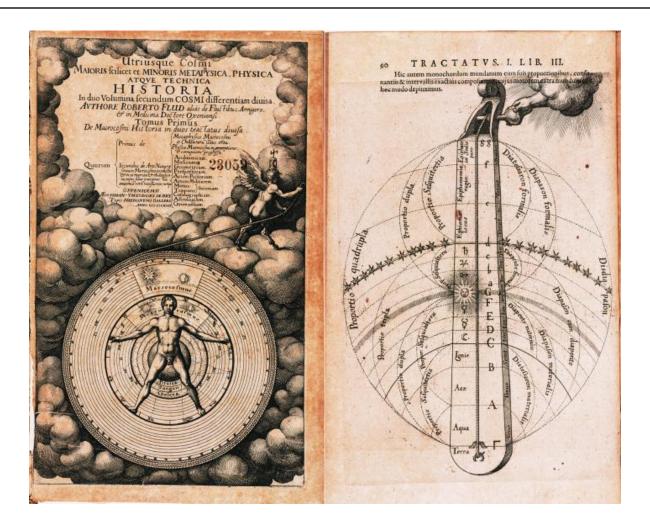
This presentation is available in **pdf** format at

rhoadley.net/presentations



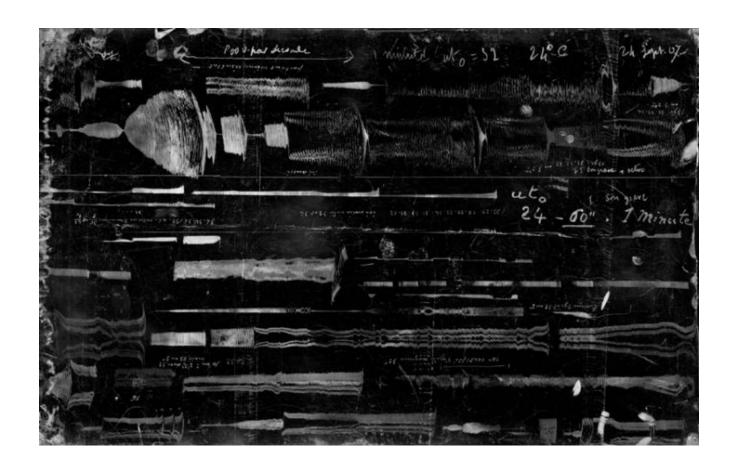
Inside the Wind - For Chorus

Robert **Fludd** (1574-1637)



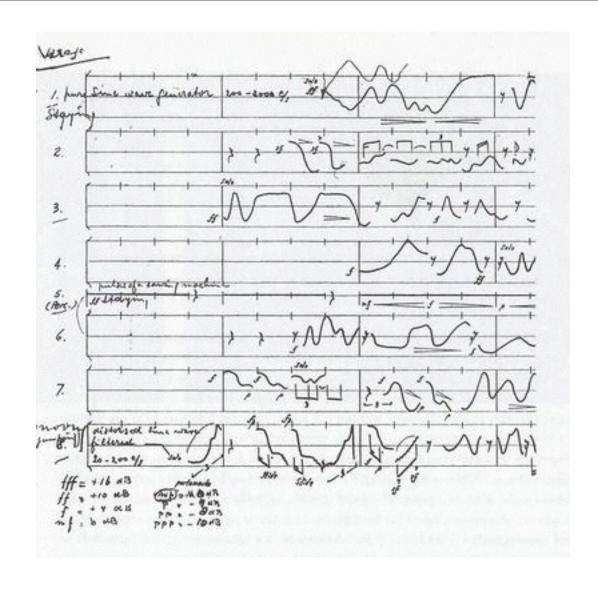
Robert Fludd (1574-1637). Opera, [Francofurti : Goudae], Oppenhemii, J. Th. de Bry et haeredes, C. F. et G. Fitzer, P. Pammazenius, 1617-1638.

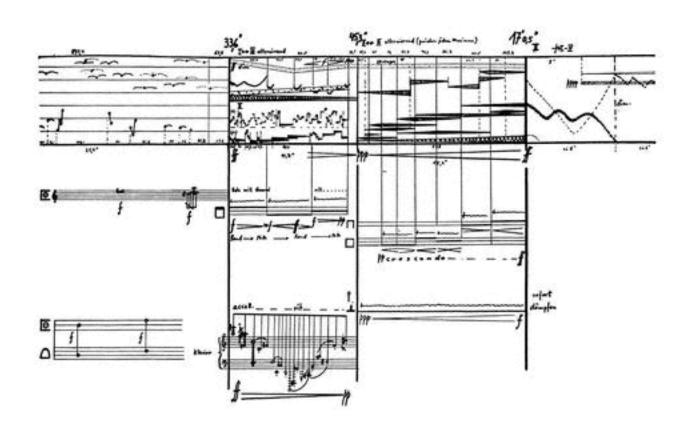
Etude: Expérimentale d'Acoustique Musicale (1920)



5

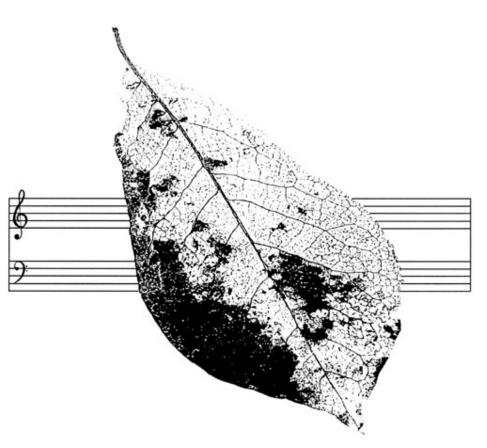
Varese: Poeme Electronique 'score' (1958)



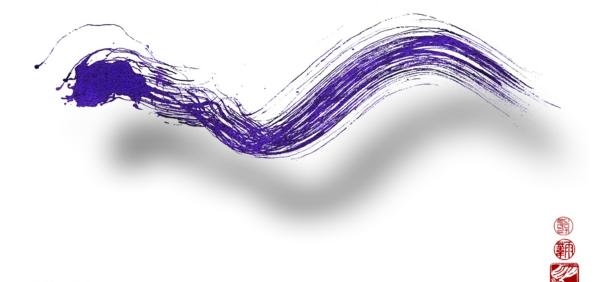


Leaves 2 (1993)

"This score can be performed aurally, visually, kinesthetically, synaesthetically, interactively, literally, symbolically, or philosophically."

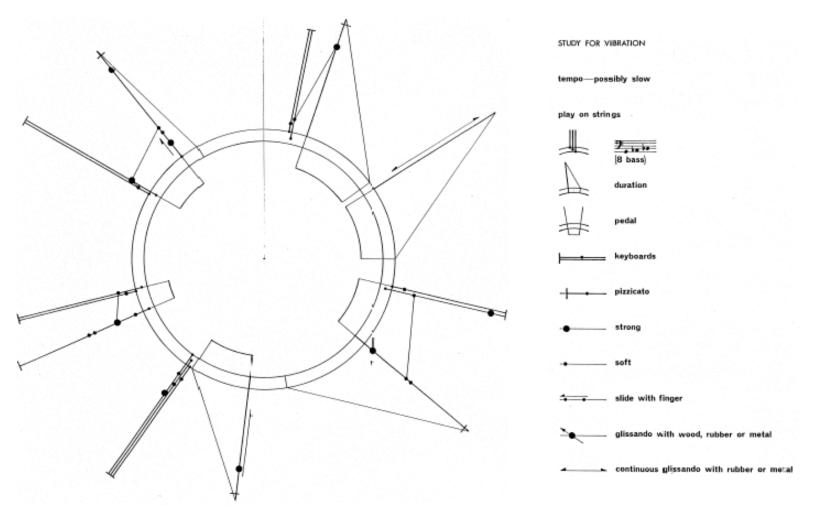


Inside the Wind - For Chorus



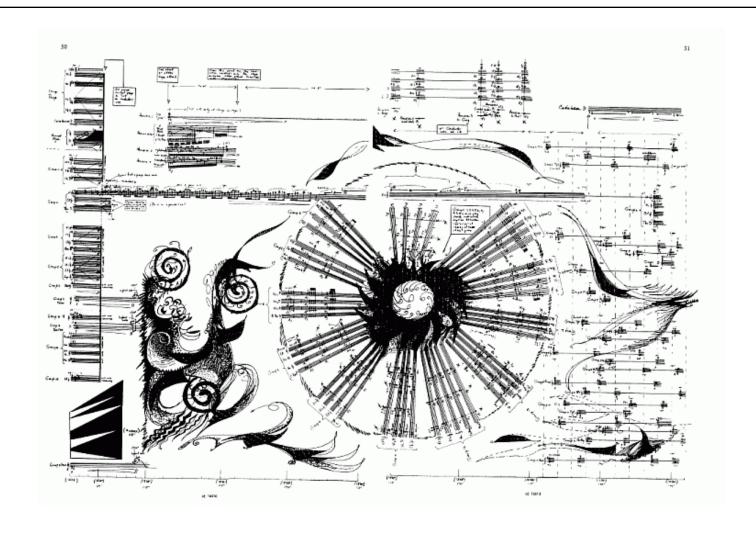
Randy Raine-Reusch - 07/05/03

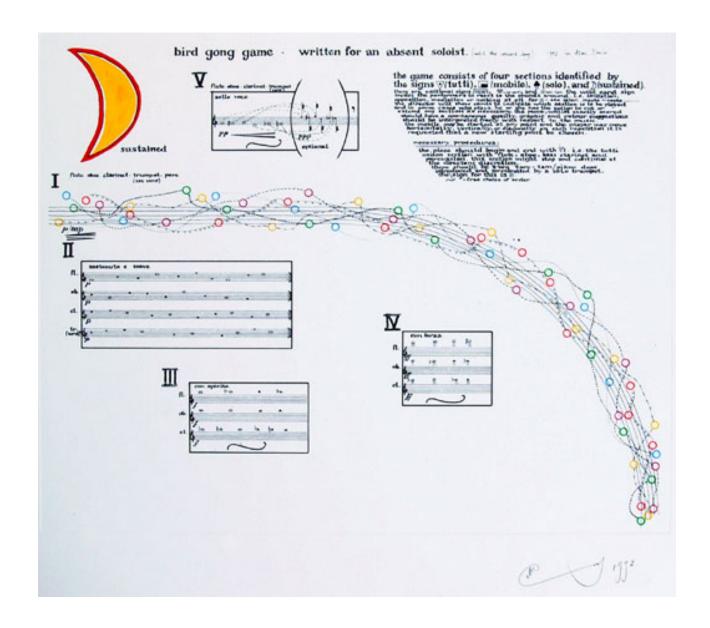
Study for Vibration (from Corona for Pianists) (1962)



"The performance may start at any point of the perimeter no matter clockwise or counterclockwise."

Divan I Shams I Tabriz for Orchestra, seven singers and electronic sounds (1977)

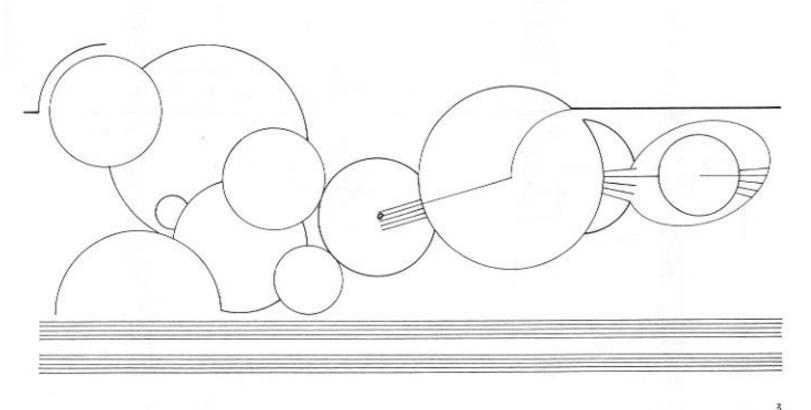




12

Notation as Art Cornelius Cardew

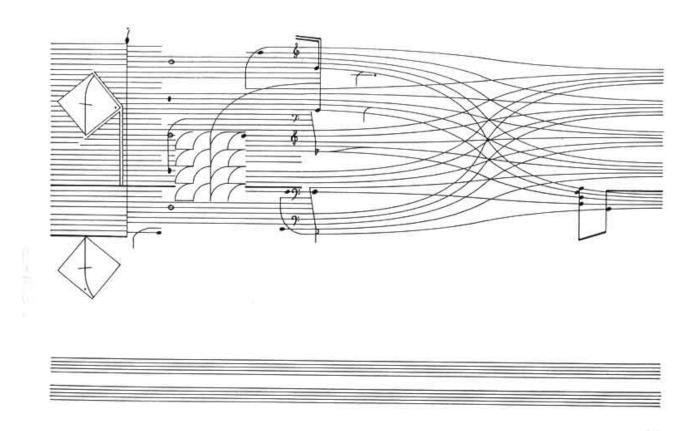
Treatise (detail, with audio) (1967)



Recording from Cornelius Cardew Memorial Concert: http://www.ubu.com/sound/cardew.html

Notation as Art Cornelius Cardew

Treatise (detail) (1967)

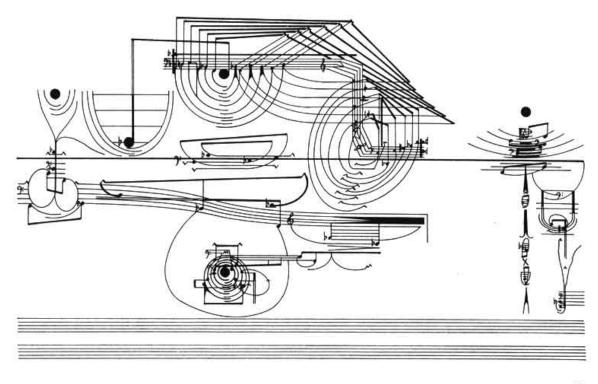


Treatise - Performed by Seven Guitars

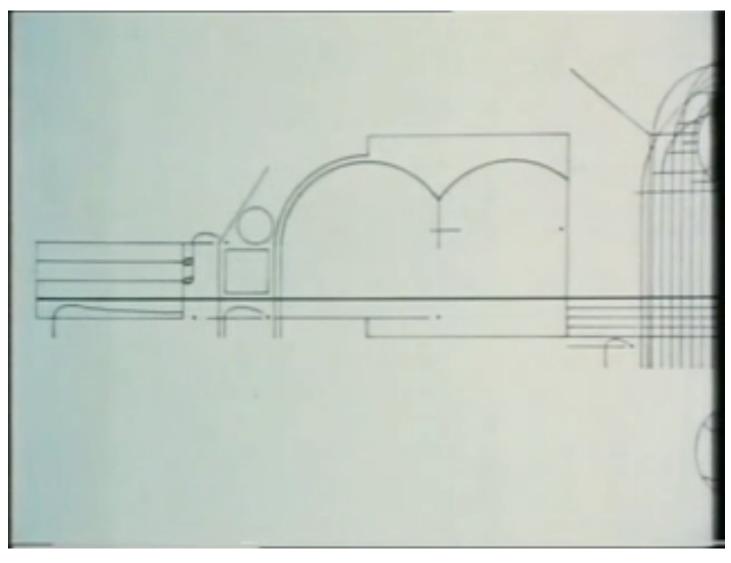
29

Notation as Art Cornelius Cardew

Treatise (detail) (1967)



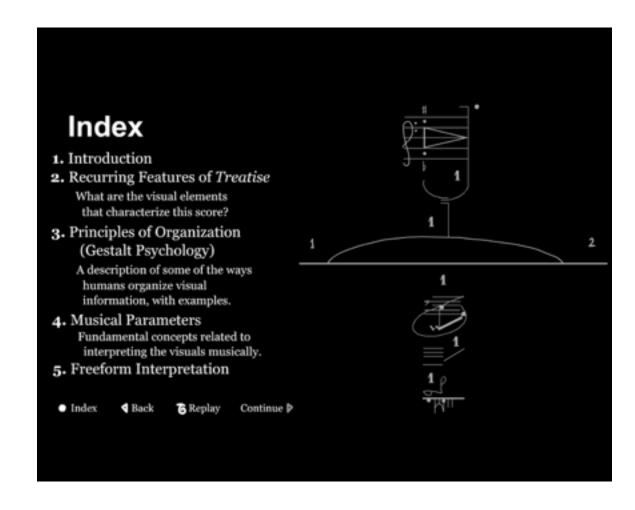
183



[6:31]

Treatise: An Animated Analysis

http://www.blockmuseum.northwestern.edu/ picturesofmusic/pages/anim.html

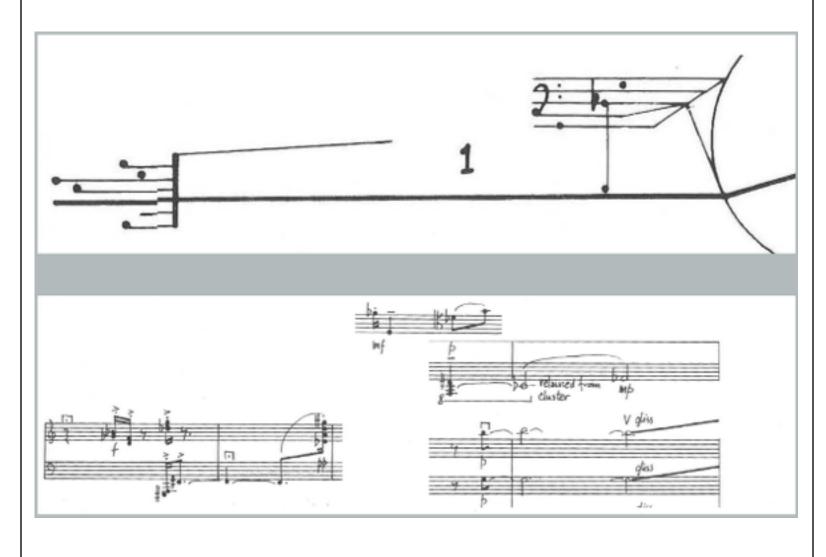


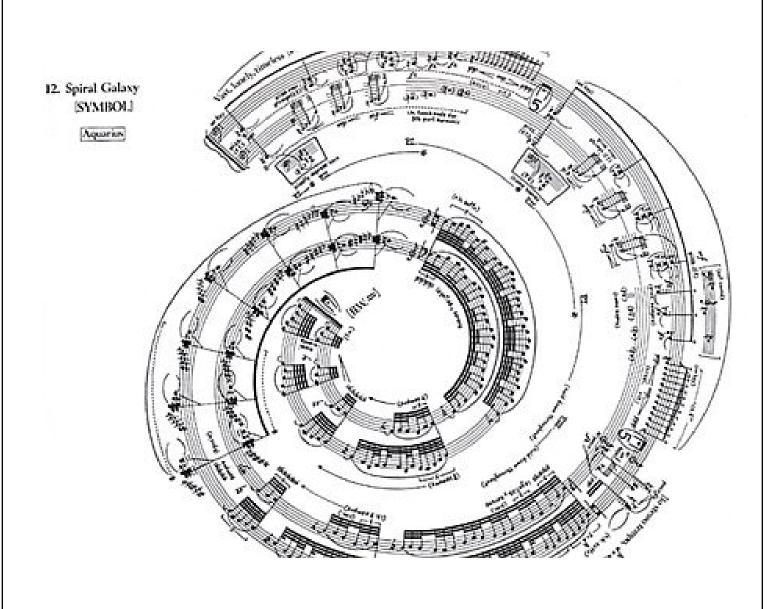


Graphic notations:

Title

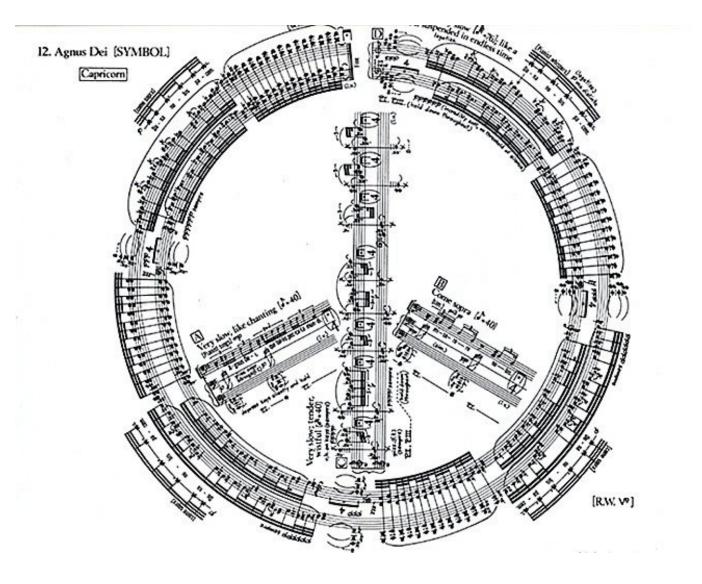
18





George Crumb: Makrokosmos [Symbol] Aquarius (1973) 12. **Spiral Galaxy**

[click for audio]



George Crumb Makrokosmos II [Symbol] Capricorn (1973) (with audio) **Agnus**

Elizabeth Harington **The Art of Fugue** bookart



Elizabeth Harington The Art of Fugue bookart

A literary use or response to the fugue can be found in Joyce's 11th episode in Ulysses ('Sirens') in which the wording and chapter structure attempted with some poetic license - to mimic or work within the rules of the fugue. Unsurprisingly, a quick search on 'Sirens' revealed that John Cage, a leading musical experimentalist and graphic score 'artist' names James Joyce as an influence (also see Cage's Roratorio).

See: 'James Joyce and Avant Garde Music', Scott W. Klein 2004 at the Contemporary Music Centre.

James Joyce and Avant Garde Music

Sonic Art Sonic Art

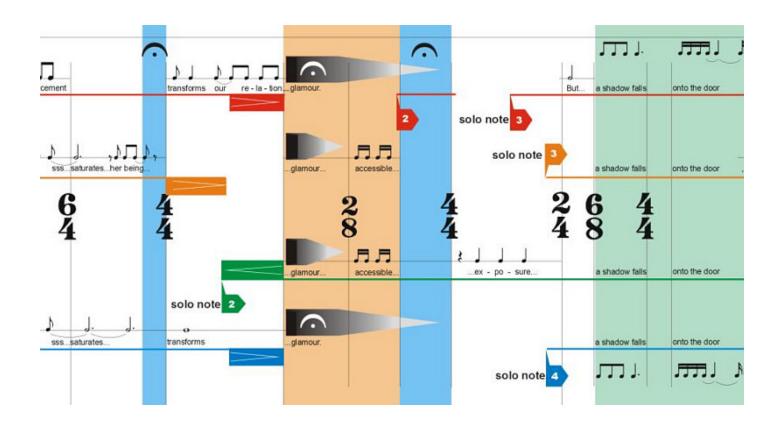
James Joyce Finnegans Wake (1939)

(one audio file)

Well, you know or don't you kennet or haven't I told you every telling has a taling and that's the he and the she of it. Look, look, the dusk is growing! My branches lofty are taking root. And my cold cher's gone as heaviling? Fillula? Fillula? What agais at ate It saon is late. 'Tis endless now senne and preserve as heaviling as heavily batternouse's clogh. They took it asunder, I hurd thum sigh. When will they reassemble it? O, my back, my back, my bach! I'd want to go to Asherdes British Reparate There's the Belle for Sexaloitez! And Concepta de Send-us-pray! Pang! Wring out the clothes! Wring in the dew! Godavari, vert the showers hands read the great and the performance on mine. Flep! It's what I'm doing. Spread the performance of the hostel sheets from him and the great and but the great and the great and folded the grown had the great and but the great and the fire and this for the code, the convent napkins, twelve, one baby's shawl. Good mother Jossiph knows, she said. Whose head?

Notation as Art

Kerry John Andrews For Andrea section 4 [detail]



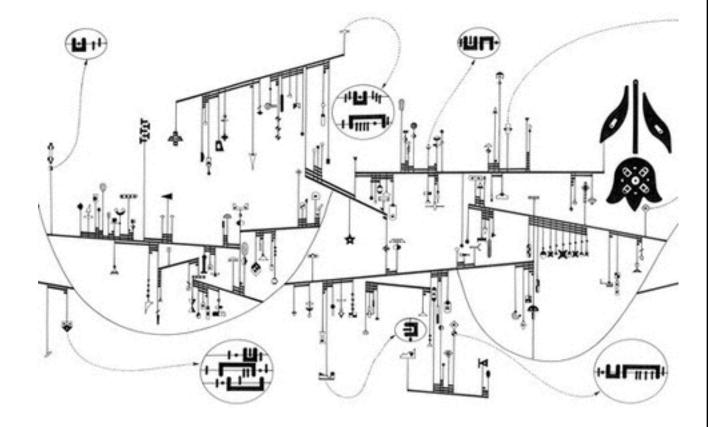
Screen capture from See Music Project: Kircher/Monteverdi



There's No Sound In My Head: Mark Applebaum's Metaphysics of Notation

Part 1

Part 2



Two versions of **musical notations** from **China**

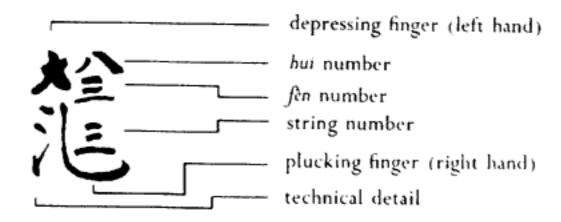
Ascending second

"

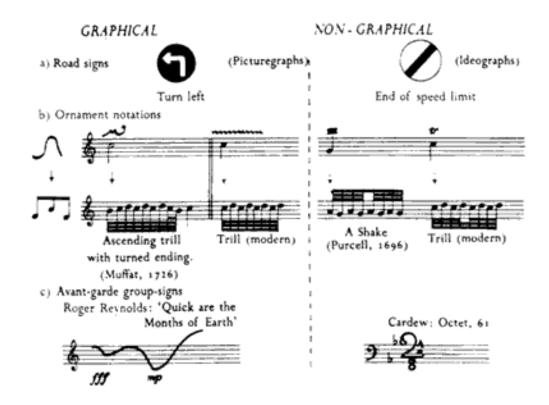
Descending second

As you can see from these examples, notation is more than just a particular view of a particular musical idea - it will soon become apparent that musical notation has a profound effect on the nature of the ideas themselves, as well as indicating to us the musical priorities of the culture that invented them.

As you can imagine, these notations have a significant effect on what can be described and how it can be described. Virtually any piece of western classical music would be difficult to read or write using this system. What does this tell us about notation in general?



Hugo Cole Signs and Symbols



Above is a table from Hugo Cole's book **Signs and Symbols**, showing examples of two primary types of musical symbols used throughout the world. As you can see, this division also applies to other symbols we use, including our written languages. Symbols either describe their meaning by graphical similarity **(pictograms)** or through less obvious, more abstract associations (although these may well have once been graphical too), **(ideograms)**.

Signs and Symbols

 Take three intonations of the word 'yes' and give an approximate indication of each by an appropriate accent sign:

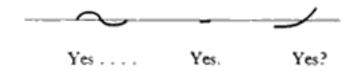
Yes . . . (considering, doubtful)

Yes . . . (curt, businesslike)

Yes? (question)

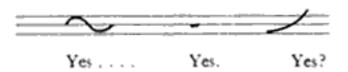
Also taken from Hugo Cole's book. Take a very simple human verbal response and, through a variety of processes of varying complexity, investigate the varieties of notation appropriate.

2) A fixed line can be added to represent fundamental speaking tone:

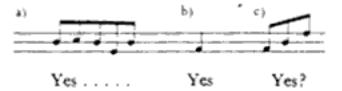


Signs and Symbols

3) Other lines can be added to define intervals in common use:



4) On the analogy of alphabet writing, and on the single pitch signs, as at (b) below, each sign can be segmented. The sound continuum is divided up into distinct pitch levels:



5) The tune can be separated from the word. Pitch can be fixed to any degree of precision. (In normal use, we take c,d,e,f,g... to mean 'the sounds practising musicians accept as c,d,e,f,g...'.):



Signs and Symbols

6) We can return to the first notation, and convert it into a precise time-pitch graph, representing the sound as pitchcontinuum, after the manner of today's proportionate notations:



7) At (4), we have gained the power to specify many types of melodic pattern, but at the price of limiting our idea of 'melody' to 'that which can be notated by a series of fixed pitches'. But we can still produce approximations to subtly inflected pronunciations:



Notation in the **Twentieth Century**

Since the early days of western notation, certain elements have become more and more explicitly governed by notation and at the same time, the complexity of the musical grammar of these ideas has also become more complex as composers have sought to achieve ever more original ideas. The first two examples, both from Stockhausen show one aspect of this problem, specifically here with the complexity of dynamic information making both the reading and performance of such material very difficult:



Stockhausen Klavierstuck 1



Methods with which **composers** have attempted to **overcome problems** of **over-complexity** in **notation**



Graphic Notations

Cage: Changes
5 — 11 — 8 — 155 —

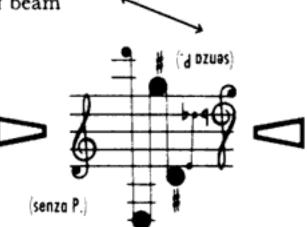
Numbers indicate dynamic levels

Stockhausen: Zyklus

Bartolozzi: New Sounds for Woodwind

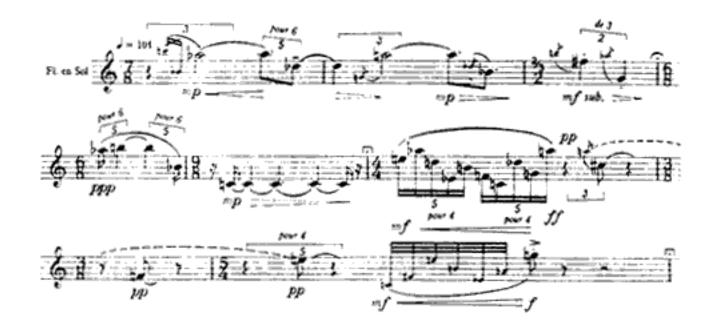


Dynamic indicated by thickening of beam



Arrow indicates ritenuto Loudness shown by size of notehead

Complexity and **Simplicity**



Boulez Le Marteau Sans Maitre original

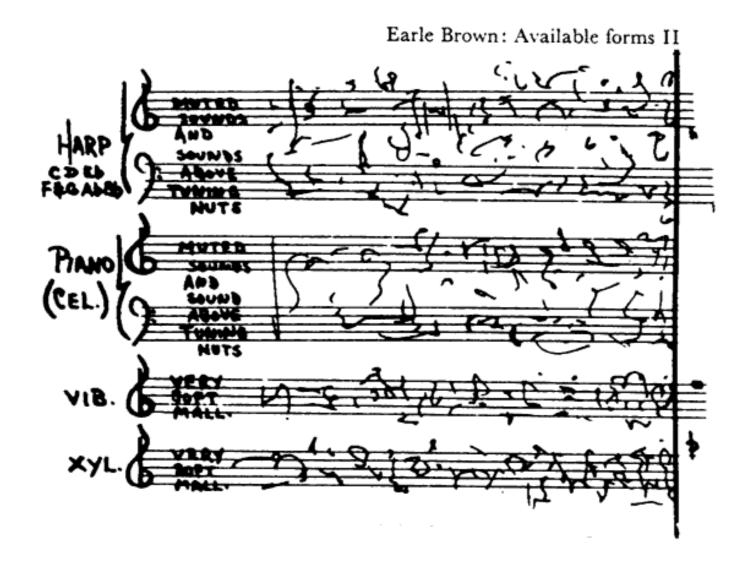
Boulez Le Marteau Sans Maitre 'alternative' version



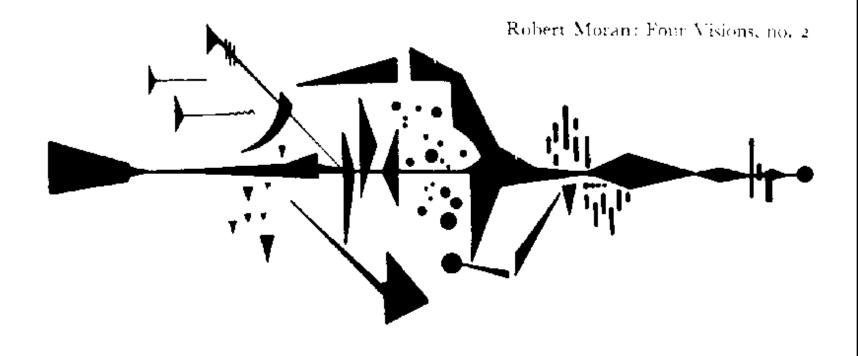
[click for each line]

- There follow a variety of examples of different forms of notation.
- See how well you think they communicate.
- Why have none of these, or, for that matter, any of the other examples of these really come into use? Or have they?
- Can you think of any examples which might have done?
- Why do you think these composers felt the need to experiment in these ways?

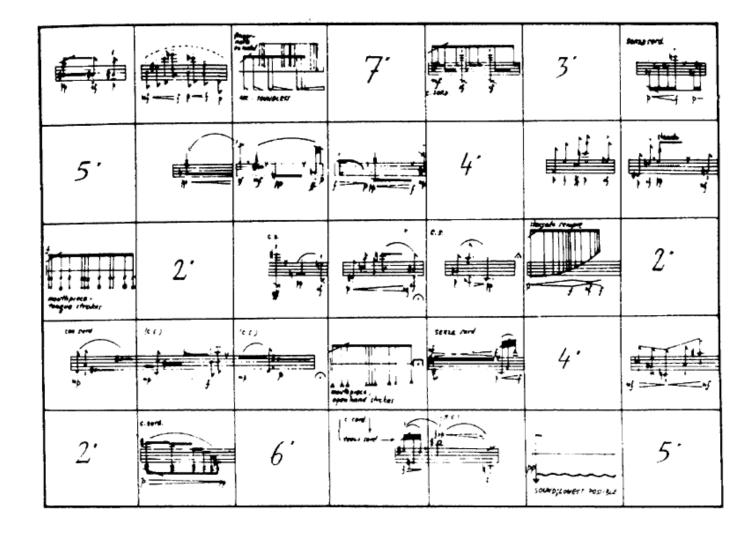
Earle Brown Available Forms 2



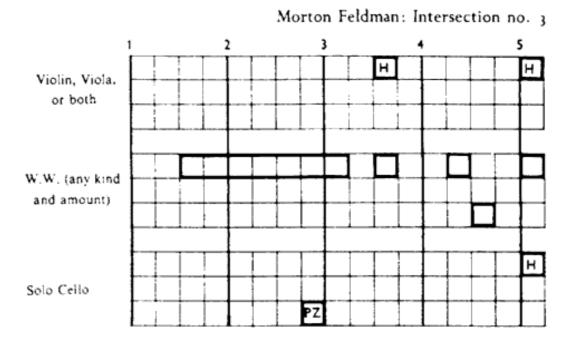
Robert Moran Four Visions No.2



Christian Wolf **Duet 2**

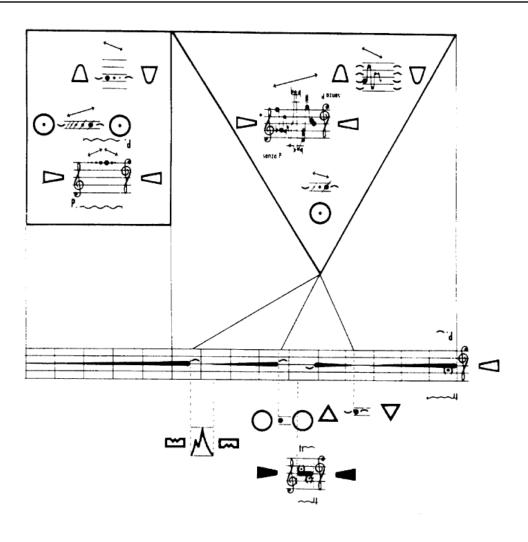


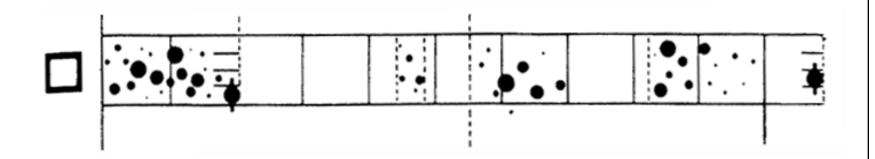
Morton Feldman Intersection 3



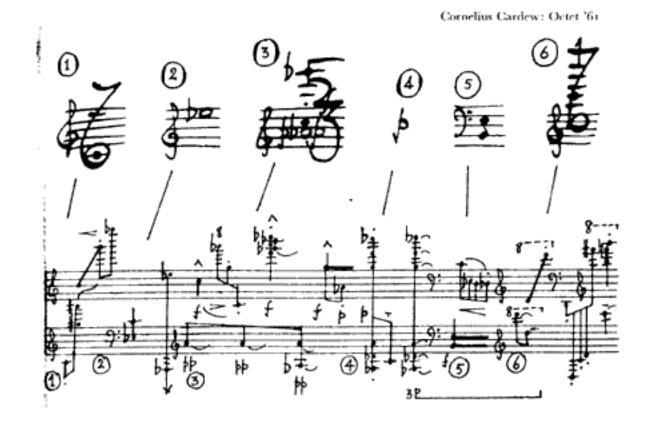
Squares horizontally represent a time-unit of M.M.72. 'Vertically, each of the three squares represents a general pitch level: low, medium, and high. Each instrument comes in when its part has a blocked-in square, but once it has entered, the tone or tones must remain until the blocked-in square ends. Sometimes the composer indicates by an H that he wishes harmony, or by Pz that a pizzicato tone would be appreciated.'26

Karlheinz Stockhausen **Zyklus**





Cornelius Cardew Octet '61



Text Pieces: Stockhausen From the Seven Days Right Durations (1968)

Play a sound
Play it for so long
until you feel
that you should stop

Again play a sound
Play it for so long
until you feel
that you should stop

and so on

Stop when you feel that you should stop

But whether you play or stop: keep listening to the others

At best play when people are listening

Do not rehearse

Black MIDI

http://rhizome.org/editorial/2013/sep/23/impossible-music-black-midi/

http://knowyourmeme.com/memes/black-midi

Notation as **Art**

Animated notation and kinetic typography

http://animatednotation.blogspot.co.uk

http://animatednotation.com

https://vimeo.com/channels/kinetictypography

Sonic **Art**

INScore

...demo?

Consider notation as visualisation

Visualisation

http://animatednotation.com

http://animatednotation.blogspot.co.uk

TENOR

Live coding

INScore

- Notations (Cage)
- Notations 21 (Theresa Sauer 2009)
- Book (available on web)
- Experimental music notation resources (available on web)
- Turntable notations:
- http://www.thetika.com/turntablism-notationmethods/
- · S-notation
- · TTM

- Sounds and Signs (Cole 1974)
- Orchestration (Piston 1955)
- Orchestration (Blatter 1980)
- Behind Bars (Gould 2011)

"This brings me to the notational dilemma of the 1940's and 1950's: the precise notation which results in imprecise performance. Can we speak at all of precise notation if the practical realisation can but approximate the complexities on the page?"

"to learn to play the disorderly in orderly fashion is to multiply rehearsal time by one hundred"

 The Changing Composer-Performer Relationship: A Monologue and a Dialogue (Foss 1963)

Bibliography

http://bibliodyssey.blogspot.com/2006/07/visual-context-of-music.html

http://www.blockmuseum.northwestern.edu/picturesofmusic/

Epilogue...



Notation as Art

Other **Presentations**

http://rhoadley.net/presentations

57

